

**REMARKS**

Claims 19-23 and 30-34 are currently pending. Of those claims, claim 19 is amended and claims 32-34 are added via the present submission. No claims are canceled with this submission.

Claims 19 and 30 stand rejected under 35 U.S.C. § 102(e) as anticipated by Zhao et al., U.S. Patent No. 6,210,485. Applicants respectfully traverse this rejection.

Claim 19 describes a vaporizer that has a transfer conduit made as a double conduit comprising an internal conduit and an external conduit. The internal conduit is inserted into the external conduit, and a space is kept therebetween. With the present amendment, claim 19 explicitly states that the external conduit:

is provided in order to transfer gas for atomization, the gas for atomization flowing through the space.

Claim 30 depends from claim 19, so it also describes this subject matter. Because Zhou et al. does not disclose such subject matter, the rejection should be withdrawn.

To anticipate the space between an internal conduit and an external conduit as claimed, the rejection relies on the Zhou et al. disclosure of a space within inlet bore 136 (and up to threaded sleeve 135) and external to injection member 114. However, this space is not provided in order to transfer gas for atomization, such that the gas for atomization flows through the space.

Applicants appreciate the courtesy extended by the Examiner-of-record on January 30, 2006 by granting a telephone interview. Applicants' representative argued that Zhou et al. did not disclose an "external conduit ... which transfers gas for atomization" and a "cooling member ... in contact with said external conduit" as claimed. The Examiner disagreed, arguing that some of the gas for atomization flows up inlet bore 136. (Obviously, the gas compresses, because inlet bore 136 terminates at threaded sleeve 138.) The Examiner argued that gas circulates in inlet bore 136 (external to injection member 114), and some of the gas

transfers back down for atomization at main vaporization section 146. Thus, the Examiner concluded, inlet bore 136 is an “external conduit” as claimed.<sup>1</sup>

Applicants respectfully urge the Examiner to reconsider the proper interpretation of the claim terminology “transfer” and consider also the proper interpretation of “through.” As shown in the enclosed online dictionary definition of “transfer,” this term indicates that the gas for atomization moves from one place to another. Thus, inlet bore 136 of Zhou et al. cannot anticipate the external conduit recited in claim 1, because gas entering inlet bore 136 (external to injection member 114) cannot exit anywhere but the same place it entered. Further, claim 19 now explicitly recites that gas for atomization flows *through* the space between internal and external conduits. The enclosed online dictionary definition of “through” confirms that the claim specifies that the gas for atomization flows from one end of the space to another end. In contrast, as stated above, any gas entering inlet bore 136 of Zhou et al. cannot exit anywhere but the same place it entered.

Accordingly, the anticipation rejection of claim 19 should be withdrawn. Because claims 30 depends from claim 19, the anticipation rejection of claim 30 should also be withdrawn.

New claims 32-34 also depend from claim 19. Thus, claims 32-34 also describe subject matter not taught by Zhou et al.

Claim 32 additionally specifies that the gas for atomization enters an end of the external conduit, *goes out from another end* of the external conduit closer to the orifice member, and flows through the space from the end of the external conduit to the other end of the external conduit closer to the orifice member. In Zhou et al., any gas for atomization entering the space

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<sup>1</sup> Applicants’ representative agrees that the Examiner’s Interview Summary mailed February 1, 2006 generally reports the interview discussion accurately. However, applicants’ representative recalls that the proper interpretation of the claim terminology “end portion,” while discussed, was not a major subject of disagreement. Instead, applicants’ representative recalls that the disagreement related predominantly to the proper interpretation of the claim terminology “transfers gas for atomization.”

within inlet bore 136 and external to injection member 114 cannot go out from another end of the space. Accordingly, claim 32 is allowable over Zhou et al. for this additional reason.

Regarding claim 33, applicants observe that, in both the invention and Zhou et al., the gas for atomization enters the vaporizer and meets a junction of a first path, which leads to the orifice member, and a second path, which leads to a terminating end. (See, for example, applicant's Fig. 27 and Zhou et al.'s Fig. 4.) In applicants' invention, a "cooling member" is provided around the first path. In contrast, the Zhou et al. cooling member (cooling head 104) is provided around the second path. Claim 33 describes this distinction explicitly, so it is allowable over Zhou et al. for a reason in addition to that it depends from claim 19.

Applicants now reference the embodiment of their invention shown in Fig. 33 of their specification. Note that cooling rod 202 and external conduit 200b are separate members. In contrast, inlet bore 136, relied upon to anticipate an external conduit, is part of cooling head 104, relied upon to anticipate a cooling member. That is, the Zhou et al. external conduit and cooling member are not members different from each other. New claim 34 describes this distinction explicitly, so it is allowable over Zhou et al. for a reason in addition to that it depends from claim 19.

Applicants appreciate the allowance of claims 22 and 31 and the indication that claims 20, 21, and 23 would be allowable if claims 20 and 23 were rewritten into independent form. However, claims 20, 21, and 23 depend from claim 19, and applicants explain above why the rejection of claim 19 should be withdrawn. Thus, it is not necessary to rewrite claims 20 and 23 into independent form to gain the allowance of claims 20, 21, and 23.

In view of the remarks above, applicants now submit that the application is in condition for allowance, and a Notice of Allowability is hereby requested. If the Examiner believes that issues remain unresolved, he is welcome to contact the undersigned to further prosecution.

If this paper is not timely filed, applicants petition for an extension of time. The fee for the extension, and any other fees that may be due, may be debited from Deposit Account No. 50-2866.

Respectfully submitted,

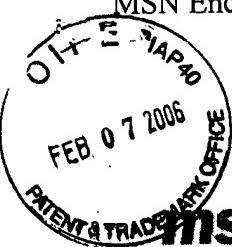
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Enclosures: Encarta® online definitions for "transfer" and "through"

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transfer



transfer

trans·fer [ transfər ]

**verb** (*past and past participle transferred, present participle transferring, 3rd person present singular transfers*)

### Definitions:

**1. transitive and intransitive verb move from one place to another:** to move from one place to another, or cause somebody or something to do so

**2. transitive and intransitive verb pass from one person to another:** to pass from one person, group, or organization to another, or cause something to be passed from one person, group, or organization to another

**3. transitive and intransitive verb start working elsewhere:** to employ somebody at a different job or in a different place while working for the same company, or begin employment in such circumstances

- *transfer to the Chicago branch*

**4. transitive and intransitive verb change vehicles:** to change from one vehicle or

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transduction
transect
transept
transeunt
transf.
transfection
<b>► transfer</b>
transfer
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transfer earnings
transfer factor
transfer fee
transfer list
transfer payment
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transfer program

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Dictionary

method of transportation to another, or  
cause somebody to do this

**5. transitive and intransitive verb change**  
**schools or subjects:** to move from one  
school or university to another, or change  
from one course to another

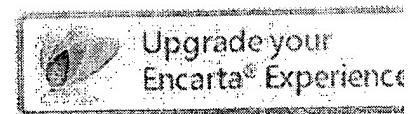
**6. transitive verb LAW change ownership of**  
**something:** to pass ownership rights in  
something to somebody else  
• *transfer a deed*

**7. transitive verb put image on another**  
**surface:** to copy a design or image from a  
piece of paper onto a different material

- **MSN Shopping:** The best in holistic online
- **MSN Careers:** Nail that job interview

#### **MSN Shopping**

MSN Shopping



noun (*plural* transfers)

#### **Definitions:**

**1. change of place:** the conveying of  
somebody or something from one place or  
position to another

**2. ticket allowing passenger to transfer:** a  
ticket that allows a passenger to change  
from one vehicle to another on a journey,  
or the place where this is done

**3. somebody transferred:** somebody who  
is transferred, e.g. a student

**4. LAW conveyance:** the passing of rights  
or property from one person to another,  
or a document that conveys rights or  
property between people

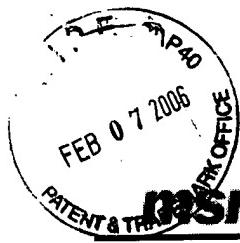
**5. design applied to surface:** an image on  
a piece of film or paper that is specially  
designed to be lifted off by heat or  
pressure and applied permanently to the  
surface of a material

**6. FINANCE recording of sale:** the recording  
of a change of ownership of shares or  
bonds in the books of the issuer

[14th century. < Latin *transferre* "carry across" < *ferre* "carry"]

- **trans·fer·al** [ transfər əl ]n
- **trans·fer·ee** [ trænsfərē ]n

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### through

**through**

**through** [ throo ] CORE MEANING: a grammatical word used to indicate movement from one side or end of something to or past the other side or end

**Definitions:**

1. **preposition passing across:** passing from one side or end of something to the other

- *bored a hole through the wall*
- *trying to find a way through*

2. **preposition traveling across:** traveling across or to various places in a town, country, or area

- *He spent the summer traveling through Europe.*
- *We're not stopping long; we're just passing through.*

3. **preposition among:** in the midst of, or having things or people all around or on either side of

- *She wandered through the crowds milling around outside the cathedral.*
- *I'd like to browse through and see if there are any articles that interest me.*

4. **preposition past barrier:** past the limitations or difficulties of something such as a barrier or a problem



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## Dictionary

- *the problems involved in wading through acres of bureaucracy*
- *The road has been narrowed to prevent larger vehicles getting through.*

**5. preposition from beginning to end:** from the beginning until the end or conclusion of

- *Martin and Johanson's works will be on view through June.*
- *I can't come I'm afraid; I'm working through.*

**6. preposition to conclusion:** to completion, to a usually successful conclusion, or so as to have finished with something

- *She sailed through the exam.*
- *They had to twist a few arms to get the proposal through.*
- *The champion, as expected, is through to the second round.*

**7. preposition via:** by way or means of

- *I'll send you a copy through the mail.*

**8. preposition over extent of:** happening or existing over the entire extent of or affecting all of

- *A flu of epidemic proportions swept through the town.*

**9. preposition because of:** as a result of

- *Through his mishandling of our affairs, we'll be lucky to have any credit at all this year.*

**10. preposition up to and including:** up to and including that time

- *Museum hours are 2-4 p.m. Tuesdays through Fridays.*

**11. adverb thoroughly:** completely and in every part

- *Your clothes are wet through.*

**12. adverb able to speak on phone:** so as to establish a telephone connection with somebody

- *We've been trying to get through all morning but the lines are busy.*
- *You're through to Ms. Spriggs.*

**13. adjective going directly:** going directly without stopping or requiring a change

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**MSN Shopping**

MSN Shopping



- *The through train leaves on the hour.*

**14. adjective passing through**

**something:** proceeding or extending from one side or end of something to the other or through something and beyond it

- *a through room*
- *through traffic*

[ Old English *þurh* < Indo-European, "pass through"]

**be through with somebody**

1. to want to have nothing else to do with somebody

2. to have finished doing something, often something unpleasant, to somebody

- *When I'm through with him, he really will have a headache!*

**be through with something to have finished with something (informal)****through and through completely**

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